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TRANSACTIONS
OF THE
AMERICAN PHILOLOGICAL ASSOCIATION,
1885.

I. — *The Roots of the Sanskrit Language.*

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THE word *root* as used in this paper is taken in its ordinary and well-understood sense, the many questions and controversies that attach themselves to it being passed without notice. And the object of the paper is to set forth what, in this sense, the roots of Sanskrit really are: really, that is to say, as opposed especially to the fictitious and false roots with which they have been mixed up by the native grammarians of India. It is now pretty generally known that the list of roots of their language as given by those authorities is wholly untrustworthy, and cannot be used in etymologic investigations. In fact, considerably more than half of those they include in the list have no right to be there, presenting neither verb-forms nor derivatives throughout the whole long history of the language; a great many of them, too, are of such form and ascribed meaning as show their artificiality. How the grammarians came to set up such a list, and where they got their false roots from, it is no part of our present object to inquire; the matter is one of extreme obscurity, and concerns the student of the Hindu science of grammar, and him alone; the facts of the case are too patent to be misunderstood or questioned. If there were a limited and moderate number of roots unauthenticated by traceable use, and if they were all homogeneous with the au-

thenticated roots, and to some extent supported by kindred words discovered in the other languages of the family, we should, as a matter of course, regard them as at least for the most part genuine, and only by accident unquotable. But, as things are, such an assumption is simply and utterly impossible; the mass and the character of the fictitious is overwhelming; and any root or roots in it can be regarded as genuine only when there is convincing positive evidence to that effect. In other words, the fact that a root of a certain form is given by the Hindu grammarians is of no value whatever; unless some other testimony to its authenticity can be brought forward, it must be discarded by the etymologist as a figment.

But not the false roots of the grammarians alone are excluded from use in Indo-European etymology; not a few of the real ones are equally unfitted for its purposes — those, namely, the time or manner (or both) of whose appearance in the records of the language shows them to be more or less probably of secondary origin, or to have taken on the semblance of roots in the course of the separate history of development of the Sanskrit itself. A root, for example, which makes its first appearance in the later language, is, unless in exceptional cases, no proper subject of comparison outside of India.

As intimated above, these truths with regard to Sanskrit roots have for some time past been coming to be realized, both theoretically and practically. And students of the history of Indo-European language have in good part learned that there is a trustworthy authority to which they may go in order to know whether an alleged root is genuine or not — namely, the great Petersburg Lexicon of Böhtlingk and Roth. In that work are to be found the results of a sifting of the whole recorded language, ancient and modern, with quotations and references to show the range and frequency of use; by its testimony one can judge the character of anything that is claimed to be Sanskrit. So nearly everything — and especially, so nearly everything that is ancient — has been gathered into its pages, that it must be deemed little short of complete and final, so far as the question of roots is

concerned. But it is not accessible to all, nor conveniently so to any but a practised Sanskrit scholar; and even by the latter its evidence is often not to be brought to bear without much expenditure of time and labor upon a particular case. During some years past, I have been preparing, partly from the Lexicon and partly from my own collections, a conspectus of all the verbal forms and primary derivatives that cluster about the quotable roots of the language, each item with designation of its chronological period, and it is now (July, 1885) just leaving the press at Leipzig.¹ I have thought, then, that it would be a convenient and useful work to draw off from that volume a chronologically classified list of the quotable Sanskrit roots, with such brief statements regarding their use and the occurrence of their derivatives as should either satisfy the inquirer respecting them in any given case, or should prepare him to consult with more profit the fuller sources of information indicated above.

By way of introduction, it may be briefly pointed out here that the history of the Sanskrit language falls into two principal divisions, the earlier and the later. That the later period is mainly represented by the common or classical Sanskrit, the language of the great mass of the Sanskrit literature, having its usages defined and determined by the native science of grammar—while, however, the two great epics (*Mahābhārata* and *Rāmāyaṇa*) are in a measure free from the domination of the grammarians' rules. That the earlier period is represented by the Vedic literature, taking the term Vedic in its widest sense, and falls—roughly, and not without some overlapping and mixture—into the three subdivisions of Veda, *Brāhmaṇa*, and *Sūtra*, or metrical text, prose exposition, and ceremonial prescription.

The designation of historical periods, then, to be made in the following lists and statements, is fivefold, and will be made by means of the letters V. for Veda (including, as here used,

¹ The Roots, Verb-Forms, and Primary Derivatives of the Sanskrit Language: a Supplement to his Sanskrit Grammar, by W. D. Whitney. Leipzig, Breitkopf and Härtel; Boston, Ginn & Co. 8vo. Pp. xiv., 250. Also in a German translation, by H. Zimmer.

only the Rig-Veda, Sāma-Veda, and Atharva-Veda : RV., SV., AV.), B. for Brāhmaṇa, S. for Sūtra, E. for epos, and C. for common or classical Sanskrit.

The classification of the roots, and their order as classified, will be as follows (putting first all the roots that are found in the earliest or Vedic period of the language, since these are most likely to be of Indo-European value) : —

- A.** Roots found to occur at all periods, Vedic to classical (or V. +) : 420.
- B.** Roots found throughout the older language, or in Veda, Brāhmaṇa, and Sūtra (V. B. S.) : 38.
- C.** Roots found only in Veda and Brāhmaṇa (V. B.) : 58.
- D.** Roots found only in the Veda (V.) : 62.
- E.** Roots found from the Brāhmaṇa onward (B. +) : 59.
- F.** Roots found only in Brāhmaṇa and Sūtra (B. S.) : 8.
- G.** Roots found only in the Brāhmaṇa (B.) : 24.
- H.** Roots found from the Sūtra onward (S. +) : 17.
- I.** Roots found only in the Sūtra (S.) : 3.
- J.** Roots found only in the later language, epic and classical (E. +) : 55.
- K.** Roots found only in the epics (E.) : 4.
- L.** Roots found only in the classical language (C.) : 72.
- M.** Roots inferred only from derivatives : 25.

In all, 845 roots, but including not a few that are palpably variants of other roots, or evidently of secondary origin — or, in the latest period, artificial: that is to say, taken and made use of because they are given in the grammarians' root-lists. The last class, M., might of course have been considerably increased; only the most conspicuous cases have been included in it.

LIST OF SANSKRIT ROOTS.

A. *Roots found in all Periods, Vedic to Classical.*

- | | |
|---|---|
| <p>1 aks, attain.
Secondary, from 1 aç. Only sporadic cases.</p> <p>ac, añc, bend.
Hardly used after B. except in caus. and derivatives. Query whether -añc (pratyañc etc.) is this root or a suffix.</p> <p>aj, drive.
Hardly used after S. except in derivatives.</p> <p>añj, anoint.
Rare in later lang., except pple, caus., and derivatives.</p> <p>at, wander.
Rare, pers. forms only in RV.; compare aṭ.</p> <p>ad, eat.</p> <p>an, breathe.
Rarer later; some deriv. common throughout.</p> <p>arc, řc, praise.</p> <p>arh, deserve, etc.
Grows more common later.</p> <p>av, favor.
Much rarer later, as also deriv., unless avi.</p> <p>1 aç, añç, attain.
Compare 2 aç and 1 aks; little used later.</p> <p>2 aç, partake of.
Probably ultimately the same with 1 aç.</p> <p>1 as, be.
Abundant throughout. Few derivatives.</p> <p>2 as, throw.</p> <p>ah, say.
Only in four persons of perfect indicative.</p> <p>āp, obtain.</p> <p>ās, sit.</p> <p>1 i, go.</p> <p>iñg, stir.
In earlier lang. only caus. (denom.?). No deriv. before S.</p> <p>idh, indh, kindle.</p> <p>il, be quiet.
In earlier lang. (AV. to S.) only caus.; no derivatives.</p> | <p>1 iç, seek.
Probably the same with 2 iç.</p> <p>2 iç, send.
Apparently 1 iç with caus. meaning.</p> <p>iks, view.
Very rare in earliest lang., but rapidly gaining in frequency.</p> <p>iñkh, swing.
Unusual at all periods.</p> <p>id, praise.
Rare in later language.</p> <p>ir, set in motion.
Only caus., pple, and deriv. in later language.</p> <p>īç, be master.</p> <p>1 ukç, sprinkle.
Few unquestionable derivatives.</p> <p>uc, be pleased.
Only ucita and okas after B.</p> <p>ud, und, wet.
Only pple and deriv. after S.</p> <p>ubh, confine.
Only umbhita after S.</p> <p>uç, burn.
Apparently a differentiated form of 1 vas, 'shine.'</p> <p>1 ūh, remove.
Doubtless a differentiated form of vah, 'carry.'</p> <p>2 ūh, consider.
Probably 'carry in mind,' and same with 1 ūh and vah.</p> <p>ř, řch, go.</p> <p>1 řj, řñj, arj, direct, stretch, attain.
Generally reckoned as two roots. The first two forms only in older language.</p> <p>řd, ard, stir, dissolve.</p> <p>řdh, thrive.
Compare vrđh and rādh.</p> <p>ej, ij, stir.
Of rare occurrence.</p> <p>edh, thrive.
Compare řdh.</p> <p>kam, love.
No simple present-system. Compare kan, kā.</p> <p>kaç, scratch.
Not in RV.</p> |
|---|---|

kas, open.

Not in RV.

kāç, appear.

kup, be angry.

Rare till E.

kū, design.

Not RV., exc. derivatives.

kūj, hum.

Not RV.

kūḍ, **kūl**, burn.

A very few sporadic cases; caus. conjugation.

1 **kṛ**, **skṛ**, make, do.

2 **kṛ**, **kir**, scatter.

The forms with **s** rare and late.

1 **kṛt**, cut.

2 **kṛt**, spin.

Only caus. after S.

kṛç, be lean.

Only caus. and deriv. after B.

kṛç, drag, plough.

By some divided into two roots.

kṛp, shape, adapt.

kṛand, cry out.

kram, stride.

kṛī, buy.

kṛīḍ, play.

kṛudh, be angry.

kṛuç, cry out.

kṣan, wound.

No pres.-syst. in V.; no deriv. in earlier language.

kṣap, be abstinent.

Only an isolated case or two in earlier language; not in RV.

kṣam, endure.

kṣar, flow.

2 **kṣi**, destroy.

kṣip, throw.

kṣud, crush.

Pres.-syst. only in RV.

kṣudh, be hungry.

kṣubh, quake.

In RV., only derivatives.

khan, **khā**, dig.

khād, chew.

khid, tear.

khyā, see.

No pres.-syst. in earlier language.

gam, **gach**, go.

garh, chide.

Only an instance or two in earlier language.

1 **gā**, go.

Pres.-syst. found only in V. B.

2 **gā**, sing.

gāh, plunge.

gup, guard.

gur, greet.

Doubtless a secondary form of
1 **gṛ**.

guh, hide.

1 **gṛ**, sing.

2 **gṛ**, **gīr**, **gil**, swallow.

3 **gṛ** (**jāgṛ**), wake.

Only in reduplicated and intensive forms.

gṛdh, be greedy.

grath, **granth**, tie.

grabh, **grah**, seize.

gras, devour.

glā, be weary.

ghas, eat.

After S., only desid. and derivatives.

ghuṣ, sound.

ghṛ, **ghar**, drip.

After B., only **ghṛta** and caus. and derivatives.

ghrā, smell.

cakṣ, see.

car, move.

cal, stir.

Secondary form of **car**. Not in RV., except redupl. derivatives.

1 **ci**, gather.

2 **ci**, note, observe.

Perhaps the same with the preceding.

cit, perceive, know.

In later lang., only pple, second. conj., and derivatives.

cud, impel.

After V., only caus. and derivatives.

ceṣṭ, stir.

Not in RV.

cyu, move, stir.

1 **chad**, cover.

Exc. **channa** and deriv., only causative.

chand, 2 **chad**, seem, please.

chā, cut up.

Rare; not in RV.

chid, cut off.

- 1 **jakṣ**, eat.
Reduplicated form of **ghas**.
- jan**, **jā**, give birth, be born.
The form **jā** only in pres.-syst.,
pple, and derivatives.
- jambh**, **jabh**, chew up, crush.
- jas**, be exhausted.
After V., only caus. and deriva-
tives.
- 1 **ji**, conquer.
- jiv**, live.
- juṣ**, enjoy.
- jū**, be swift.
Probably related with **jīv**; only
caus. in later language.
- 1 **jṛ**, waste away.
- jṛmbh**, gape.
- jñā**, know.
- takṣ**, fashion.
- taḍ**, beat.
In earlier lang., only deriv. (and
tāḍhi?).
- 1 **tan**, stretch.
- tap**, heat.
- tam**, faint.
In V., only deriv. and one form
(**tamat**).
- tij**, be sharp.
In later lang., only desid, caus.,
and derivatives.
- tud**, thrust.
- tuṣ**, be content.
Before S., only caus. (and **tūṣ-**
ṇīm?).
- tr**, pass, cross.
- trd**, bore, split.
After S., hardly exc. in derivatives.
- trp**, be pleased.
- trṣ**, thirst.
After B., only pple and deriva-
tives.
- tyaj**, forsake.
Only one occurrence before S.
- tras**, be terrified.
- trā**, rescue.
- tvar**, hasten.
Not in RV.; related with **tr**, **tur**.
- tviṣ**, be stirred up.
Only in RV., exc. in derivatives
(and a single verb-form in C.).
- dañṣ**, **daṣ**, bite.
- dam**, control.
- day**, share.
Secondary form of 2 **dā**.
- das**, **dās**, waste.
After S., only **dasta** and deriva-
tives.
- dah**, burn.
- 1 **dā**, **daḍ**, give.
- 2 **dā**, divide, share.
In later lang., only pple and deriva-
tives.
- 3 **dā**, bind.
After B., only pple and deriva-
tives.
- diṣ**, point.
- dih**, smear.
- dikṣ**, be consecrated.
Not in RV.; before B., only pple
and deriv.; certainly secondary.
- dīp**, shine.
In RV., only causative.
- 1 **div**, play.
No connection with the so-called
root **div**, 'shine.'
- du**, 1 **dū**, burn.
Not in RV.
- duṣ**, spoil.
In V., only caus. and derivatives.
- dūh**, milk, derive.
- 1 **dr**, pierce, split.
- drp**, rave, talk big.
- drṣ**, see.
Lacks a pres.-system.
- drh**, **drñh**, make firm.
In later lang., only pple, caus., and
derivatives.
- dyut**, shine.
- 1 **drā**, run.
Only sporadic in later language.
- 2 **drā**, sleep.
Before B., only pple (not RV.) and
derivative.
- dru**, run.
- druh**, be hostile.
- dviṣ**, hate.
- dham**, **dhmā**, blow.
- 1 **dhā**, **dadh**, put.
- 2 **dhā**, suck.
Related with **dhi**.
- 1 **dhāv**, run.
Compare **dhan**, **dhanv**, **dhav**.
- 2 **dhāv**, rinse.
Related with **dhū**, or else with
1 **dhāv**.
- dhi**, **dīdhi**, think.
In later lang., only pple and deriva-
tives.

dhū, dhu, shake.

Deriv. almost wanting in later lang.
Compare 2 **dhāv**.

dhṛ, hold.

Simple pres.-syst. almost wanting.

dhṛṣ, dare.

dhvaṁs, dhvas, scatter.

dhvan, sound.

Divided by BR. into 1 **dhvan**
and 2 **dhvan**, 'cover.'

dhvr, dhur, dhru, injure.

After B., only pple (**dhūrta**).

nad, sound.

nand, rejoice.

Doubtless the same with **nad**.

nam, bend, bow.

1 **naç**, be lost.

nah, tie.

Exhibits in some forms and deriv.
the form **nadh**.

nāth, seek aid.

Has the form **nādh** in V. B.

nij, wash.

nind, nid, revile.

nī, lead.

1 **nu, nū**, praise.

nud, push.

nṛt, dance.

pac, cook.

1 **pat**, fly, fall.

pad, go.

1 **paç, spaç**, see.

spaç (exc. **spaṣṭa**, pple) only in
older lang.; of **paç**, only a pres-
system.

1 **pā**, drink.

2 **pā**, protect.

pi, pī, swell, fatten.

After B., only pple and derivatives.

piç, adorn.

After B., only pple and derivatives.

piṣ, crush.

pīç, press.

No pres.-syst. except causative.

puç, thrive.

pū, cleanse.

1 **pr**, fill.

2 **pr**, pass.

prç, mix.

Mainly limited to the earlier lan-
guage.

pyā, fill up.

A secondary form of **pi, pī**.

prach, praç, ask.

prath, spread.

pri, please.

plu, float.

Doubtless the same with **pru**.

phan, spring.

bañh, make firm.

Only pple, except caus. (in B.) and
derivatives.

bandh, bind.

bādh, oppress.

budh, know, wake.

1 **bṛh**, make big or strong.

brū, say.

Only pres.-syst.; hardly any deriv-
atives.

bhaks, partake of, eat.

Doubtless secondary, from **bhaj**.

bhaj, divide, share.

bhañj, break.

bharts, revile.

Not in RV.; sporadic, and doubt-
less secondary.

bhas, devour.

Compare **psā**.

bhā, shine.

Compare **bhan** and **bhās**.

bhās, shine.

Doubtless secondary, from **bhā**.

bhiks, beg.

Desid. formation, from **bhaj**.

bhid, split.

bhī, bhīṣ, fear.

1 **bhuj**, bend.

2 **bhuj**, enjoy.

bhū, become, be.

bhūs, attend upon, adorn.

Secondary, from **bhū**.

bhr, bear.

bhrj, roast.

No deriv. in V.

bhrañç, bhraç, fall.

bhrāj, shine.

mañh, mah, be great or liberal, be-
stow.

majj, sink.

math, manth, shake.

mað, mand, exhilarate.

man, think.

1 **mā**, measure.

2 **mā**, exchange.

Sporadic; doubtless a specializa-
tion of 1 **mā**.

1 **mi**, fix.Doubtless a side-form of 1 **mā**.**mith**, alternate, altercation.

In later lang., only gerund and derivatives.

miṣ, wink.**mih**, *mingere*.2 **mi**, **mī**, damage.**mīl**, wink.**muc**, **mokṣ**, release.**mud**, be merry.**muṣ**, steal.**muh**, be crazed.**mūrch**, thicken.

Not in RV.

1 **mṛ**, die.**mṛkṣ**, stroke.Doubtless secondary, from **mṛj**.**mṛj**, wipe.**mṛḍ**, be gracious.**mṛḍ**, rub, crush.**mṛṣ**, touch, feel.**mṛṣ**, not heed.**med**, be fat.

After B., only caus. and derivatives.

mruc, **mluc**, **mlup**, go down, set.**mlā**, relax.

In V., only pple and causative.

yaj, offer, sacrifice.**yakṣ**, press on (?).

Only in RV., exc. (doubtful) deriv., and one verb-form in E.

yat, stretch.**yabh**, *futuere*.**yam**, **yach**, reach.**yas**, **yeṣ**, be heated.**yā**, go.Doubtless a secondary form of **i**.**yāc**, ask.1 **yu**, unite.

In later lang., only verbals and derivatives.

yuḥ, join.**yudh**, fight.**rakṣ**, protect.**raj**, **rañj**, color.**radh**, **randh**, be or make subject.

After B., only caus. and derivatives.

rabh, 1 **rambh** (**labh**), take hold.**ram**, be or make content.1 **rā**, 2 **rās**, give.

Sporadic in later lang., exc. verbals and derivatives.

rāj, be kingly.Probably secondary, from **ṛj**.**rādh**, succeed.**ric**, leave.**riph**, snarl.

Not in RV.; rare.

ribh, sing.

Hardly in use after B., exc. in a deriv. or two.

riṣ, be hurt.1 **ru**, cry.**ruc**, shine.**ruj**, break.**rud**, weep.2 **rudh**, obstruct.**ruṣ**, be vexed.

Sporadic in older language.

ruh, ascend.**lap** (**rap**), prate.**labh** (**rabh**), take.**likh** (**rikh**), scratch.

Not in RV.

lip, **limp** (**rip**), smear.1 **lī**, cling.**lup** (**rup**), break.

Not in RV.

lubh, be lustful.

Only caus. in RV.

vac, speak.**vañc**, move crookedly.**vad**, speak.**vadh**, **badh**, slay.**van**, 3 **vā**, win.

In later lang., only pple and derivatives.

vand, greet.Doubtless the same with **vad**.1 **vap**, strew.**vam**, vomit.**valg**, spring.Not in RV., exc. **valgu**.**vaç**, be eager.1 **vas**, shine.In later lang., only pple and derivatives. Compare **uṣ**.2 **vas**, clothe.3 **vas**, dwell.**vah**, carry.Compare 1 and 2 **ūh**.1 **vā**, blow.

2 **vā**, **vi**, 2 **u**, weave.

vāñch, desire.

In older lang., only a pres.-system.

vāç, bellow.

1 **vic**, sift.

vij, tremble.

1 **vid**, know.

2 **vid**, find.

Doubtless originally the same with

1 **vid**.

1 **vidh**, worship.

Hardly occurs in later language.

vip, **vep**, tremble.

viç, enter.

viç, be active.

viṣṭ, **veṣṭ**, wrap.

In RV., only pple.

1 **vī**, cover.

2 **vī**, choose.

Probably ultimately the same with

1 **vī**.

vrj, twist.

vṛt, turn.

vṛdh, grow.

vṛṣ, rain.

vṛh, 2 **bṛh**, tear.

vyath, waver.

vyadh, 2 **vidh**, pierce.

vyā, 2 **vī**, envelop.

vraj, proceed.

vraçç, cut up.

çañs, praise.

çak, be able.

çat, cut in pieces.

Not in RV.; only caus. in older lang.; called by grammarians the caus. of 2 **çad**.

çap, curse.

2 **çam**, be quiet.

ças, 2 **çās**, cut.

çā, **çi**, sharpen.

1 **çās**, 2 **çiç**, order.

çñj, twang.

Probably imitative; quite rare.

1 **çiç**, leave.

2 **çī**, lie down.

çuc, gleam.

çudh, **çundh**, purify.

çubh, **çumbh**, beautify.

1 **çuç**, dry.

çū, **çvā**, **çvi**, swell.

After B., only pple and derivatives.

1 **çṛ**, crush.

çṛdh, be defiant.

Sporadic in later language.

çcut, drip.

çyā, 3 **çī**, coagulate.

çrath (**çlath**), slacken.

çram, be weary.

çrā, 2 **çṛī**, 2 **çṛ**, boil.

In later lang., only caus. and pple.

çri, 3 **çṛ**, resort.

çru, hear.

çliç, **çriç**, clasp.

çvas, 2 **çuç**, blow, breathe.

çthīv, spew.

Not in RV.

saj, **sañj**, hang on.

sad, sit.

sas, sleep.

Hardly found after B.

sah, prevail.

1 **sā**, 1 **si**, bind.

sādh, **sadh**, succeed.

Only second. verb-forms in later language.

sic, pour out.

1 **sidh**, repel.

2 **sidh**, succeed.

Apparently related with **sādh**.

sīv, **syū**, sew.

1 **su**, press out.

Related with **sū**.

sū, 2 **su**, generate, enliven, impel.

Compare 1 **su**.

sūd, put in order.

After V., only caus. and derivatives.

sṛ, flow.

sṛj, send forth.

sṛp, creep.

sev, attend upon.

skand, leap.

skambh, **skabh**, prop.

Compare **stambh**.

stan, thunder.

stambh, **stabh**, prop.

Seems another form of **skambh**.

1 **stu**, praise.

stubb, praise.

In later lang., only caus. and derivatives.

str, strew.

sthā, stand.

snā, bathe.
snih, be sticky.
 In earlier lang., only caus. and derivatives.
spand, quiver.
spṛdh, **spūrdh**, contend.
spṛg, touch.
spṛh, be eager.
sphūrj, rumble.
sphṛ, **sphar**, **sphur**, **sphul**, jerk, etc.
smi, smile.
smṛ, remember.
syand, **syad**, move on.
sraṇs, **sras**, fall.
sru, flow.
svaj, **svaṅj**, embrace.
svad, **svād**, sweeten.
svan, sound.
svap, sleep.

svar, sound.
 In later lang., only caus. and derivatives.
svid, sweat.
han, smite.
 1, 2 **hā**, go forth, leave.
hi, impel.
 Probably related with **hā**.
hiṇs, injure.
 Perhaps abbreviated desid. of **han**.
hīd, **hel**, be hostile.
 In later lang., only **helamāna** and derivatives.
hu, sacrifice.
hū, **hvā**, call.
 1 **hṛ**, take.
hṛṣ, be excited.
heṣ, whinny.
hnu, hide.
hrī, be ashamed.
hvṛ, **hur**, **hru**, be or make crooked.

B. Roots found throughout the older Language, or in Veda, Brāhmaṇa, and Sūtra.

2 **akṣ**, mutilate.
 Only with prefix **nis**, 'out.'
ubj, force.
 Deriv., B. +
ṛṣ, rush, push.
 Generally divided into two roots.
 Deriv., V. +
kan, **kā**, be pleased, enjoy.
 Deriv., V. +
kṣā, burn.
 Perhaps secondary, from **ghas**;
 deriv., V. +
kṣṇu, whet.
khud, *futuere*.
grabh, seize.
 The earlier form of **grah**; **gar-**
bha, V. +
cṛt, bind.
 One deriv., V. +
 2 **ji**, **jinv**, quicken.
jyā, **jī**, overpower, injure.
 Doubtless related with 1 **ji**.
tsar, approach stealthily.
 Deriv., V. +
 2 **dī**, **dīdī**, shine.
dīdhiti is found S. +
nabh, burst.
 Deriv. (doubtful), V. +

2 **nu**, move.
pinv, fatten.
 Secondary, from **pi**, **pī**.
pru, flow.
 Older form of **plu**; one deriv. (?),
 V. +
pruth, snort.
 Deriv., V. +
miç, **mikṣ**, mix.
 Deriv., V. +
mīv, **mū**, push.
 One deriv. (?), C.
mṛc, injure.
mṛdh, neglect.
 One deriv., V. +
 2 **yu**, **yuch**, separate.
 Perhaps ultimately the same with
 1 **yu**.
yup, obstruct.
 Deriv., V. +
rañh, hasten.
 Deriv., V. +
ri, **rī**, flow.
 Deriv., V. +
rih, lick.
 Older form of **līh**.
vaj, be strong.
 Denom.-caus.; deriv., V. +

- 2 **vap**, shear.
Doubtless the same with 1 **vap** ;
deriv., V. +
viḍ, make strong.
Only caus., and one derivative.
vli, **bli**, crush.
In RV., only one (doubtful) derivative.
2 **ṣad**, fall.
Not in RV.; deriv., V. +
- 1 **ṣam**, **ṣim**, labor.
1 **ṣī**, fall.
Perhaps related with 2 **ṣī**.
sagh, be equal to.
Probably another form of **sah**.
san, 2 **sā**, gain.
Deriv., V. +
spr, win.

C. Roots found only in Veda and Brāhmaṇa.

- am**, injure.
Deriv., V. +
2 **i**, **inv**, **in**, send.
Deriv., V. +. Doubtless identical with 1 **i**.
iṣ, **eṣ**, move.
One deriv., C.
ṛt, **art**, pursue.
Mutilated form of **vṛt**; sporadic.
kṛp, lament.
Deriv., V. +
kṣad, divide.
1 **kṣi**, possess.
Deriv., V. +
gu, sound.
Only intensive.
cat, hide (?).
cāy, note, observe.
Secondary form of 2 **ci**. Deriv., V. +
2 **jaks**, laugh.
Reduplicated form of **has**; sporadic.
taṁs, **tas**, shake.
Deriv., V. +
turv, **tūrv**, overcome.
Specialized form of **tṛ**.
tṛh, crush.
daks, be able.
Deriv., V. +
dagh, reach to.
One deriv., V. +
dabh, **dambh**, harm.
Deriv., V. +
dāḡ, make offering.
One deriv., V. +
1 **dī**, fly.
Earlier form of **ḍī**.
drū, hurl (?).
Only two occurrences.
dhanv, run.
Doubtless secondary, from **dhan**.
- dhūrv**, injure.
Secondary form of **dhvṛ**; no derivatives.
dhraj, **dhṛāj**, sweep, float.
naks, attain.
Secondary form of 2 **naḡ**.
2 **naḡ**, **naṅḡ**, attain.
One deriv. also in S.
nādh, seek aid.
Same as **nāth**.
2 **pat**, rule.
Doubtless denom. of **pati**.
pan, admire.
pibḍ, be firm (?).
Only an occurrence or two.
pīy, abuse.
prā, fill.
Secondary, from 1 **pr**; one deriv. also in S.
pruṣ, sprinkle.
One deriv., V. +
psā, devour.
Doubtless secondary, from **bhas**; one deriv., C.
bhām, be angry.
Doubtless really denominative.
bhres, totter.
Doubtless related with **bhraṅḡ**.
One deriv., B. +
3 **mā**, bellow.
Probably imitative. Deriv., V. +
2 **mṛ**, **mṛṇ**, crush.
Doubtless the same with 1 **mṛ**.
ranv, delight.
Doubtless secondary, from 1 **ran**.
rad, dig.
Deriv., also C.
1 **ran**, take pleasure.
One deriv., V. +
rap, chatter.
Older form of **lap**.
2 **rā**, bark.

riç, tear.
Older form of **liç**.
2 **ru**, break.
Sporadic and doubtful.
rup, break, pain.
Probably the same with **lup**.
rej, tremble.
1 **vī**, enjoy, etc.
Perplexing variety of meanings;
by some divided into two or three
roots. Deriv., V. +
ven, long.
vyac, 2 **vic**, extend.
One deriv., also S.
1 **çrī**, 4 **çr**, mix.
Deriv., V. +

çvañic, spread.
In one text, **çmañic**.
sac, accompany.
Deriv., V. +
sap, serve.
Deriv. (?), V. +
sarj, creak.
sku, tear.
One deriv., S.
srīv, fail.
Sometimes written **çrīv**.
1 **har**, be gratified.
2 **hṛ**, be angry.

D. Roots found only in the Veda.

ār, praise (?).
RV. only; very doubtful.
1 **u**, proclaim.
RV. only; more than doubtful.
3 **kr̥**, commemorate.
One deriv. (**kīrti**), V. +
krakṣ, crash.
Apparently imitative.
gadh, attach (?).
Only pple and one deriv., in RV.;
doubtful.
gūrdh, exalt (?).
Once, caus., in RV.; doubtful.
can, be pleased.
RV. only; deriv., also V. +; com-
pare **kan**.
jajh.
One form, RV.; wholly doubtful.
jajj.
Like **jajh**.
jūrv, consume.
Doubtless secondary, from 1 **jṛ**.
2 **jṛ**, sing.
Secondary form of 1 **gr̥**.
jeh, loll, pant.
Of doubtful character.
jri, go.
Only RV.
tak, rush.
Probably the same with **tac**; one
deriv., C.
2 **tan**, roar.
Apparently abbreviated from **stan**.
tand, be weary.
Only RV., once; deriv., V. +
tāv.
In AV., once; probably a false
reading.

tu, be strong.
Only RV.; deriv., V. +
tuḥ, urge, thrust.
One deriv. (?) in later language.
tuç, drip.
Divided by BR. into two roots.
tvakṣ, fashion.
Only RV., once; deriv., V. +
dañs, be wondrous.
Only RV., once; deriv., V. +
dan, straighten (?).
Only RV.; very doubtful forms.
duḍh, stir up.
Probably redupl. form of **dhū**;
one deriv. (?), C.
dhan, run.
Only RV.
dhav, flow.
Only RV.
nas, unite.
Only RV.
niñs, kiss.
Only RV.; one deriv., C.
nikṣ, pierce.
Deriv., V. +
paj, start (?).
Deriv. (?), V. B. S.
phar, scatter (?).
Only RV.; one deriv., V. B.
bhan, speak.
Only RV. Probably related with
bhā; compare **bhañ**.
bhand, be bright.
Only RV.; deriv., V. +
bharv, devour.
Only RV.

bhiṣaj , heal. Only RV.; deriv., V. +	vaks , 2 uks , increase. One deriv. (?), V. +
bhur , quiver. Probably specialized form of bhr .	vat , apprehend. Only with prefix api .
bhuraj . Only RV., once; belongs to bhrj ?	vindh , lack. Only RV.; deriv. (?), V. +
bhyas , fear. Secondary, from bhī .	vrad , vrand , weaken. Only RV.
bhri , consume. Only RV., once.	vradh , stir up. Only RV.
myaks , be situated (?). Only RV.; probably the same with miks .	vlag , vlaṅg , pursue (?). Only RV., with prefix abhi ; related with valg ?
yād , unite (?). Only RV.; one deriv., B. +	1 ṣad , prevail. One deriv. (?), V. +
rapç , be full. One deriv., also B.	ṣuj , swell (?). Only RV., one form.
ramb , hang down. Older form of lamb ; one deriv., B.	ṣcand , cand , shine. Only RV.; deriv., V. +
rikh , scratch. Another form of likh ; only RV., once, and lekhā .	ṣnath , pierce. Only RV.
rip , smear. Another form of lip ; only RV.; and one deriv., V. +	ṣruṣ , hear. Secondary, from ṣru ; deriv., V. B.
1 rudh , grow. Apparently a side-form to ruh .	ṣvit , be bright. Only RV.; deriv., V. +
	ṣridh , blunder (?). Verb-forms, only in RV.
	hās , go emulously. Secondary, from hā .

E. Roots found from the Brāhmaṇa onward.

īṣy , be jealous. Secondary, prob. from denom. īraśy ; deriv., AV. +	kṣal , wash. Doubtless the same with kṣar .
ih , be eager. Deriv., V. +	kṣu , sneeze. Doubtless imitative. One deriv. in AV.
kamp , tremble. Deriv. (?), V. +	gal , drop. Only one doubtful form in older language.
kal , drive, produce, etc. Only caus. and deriv. Divided by BR. into two roots.	cam , sip. Deriv. (?), V. +
kāṅks , desire. Deriv., only in later language.	cint , think. Doubtless secondary, from cit .
kuṣ , tear. The single occurrence in B. doubtful.	chṛd , spew, eject.
knū , wet. Sporadic.	jap , whisper.
kliç , distress. Only a case or two before later language.	jalp , murmur, speak. One deriv., also V.
kvath , boil. Deriv., only in later language.	jyut , shine. Another form of dyut ; only one doubtful occurrence in later language.
	jvar , be hot. Compare jval , jṛ . Deriv., V. +
	jval , burn, flame. Another form of jvar .

- 4 **dā**, clarify.
Probably specialization of 2 **dā**.
- 2 **dīv**, **dev**, lament.
Only pple till later language.
- 2 **dr**, heed.
Deriv., V. +
- ḍrbh**, bunch.
No verb-forms in later lang.; deriv., V. +
- dhi**, **dhinv**, nourish.
Perh. a form of 2 **dhā**; no deriv.
- dhyā**, think.
Secondary, from **dhī**; deriv., V. +
- nard**, bellow.
- paṭ**, tear, burst.
- paṭh**, read.
Hardly occurs till later language.
- pan**, bargain.
Deriv., V. +
- bhan**, speak.
Only once before C.
- bhal**, perceive.
Only caus., B. and C.
- bhās**, speak.
Related with **bhā**, **bhās**, **bhan**.
- bhram**, wander.
Only once in B.; deriv., V. +
- mil**, combine.
Only once in earlier language.
- mreḍ**, gratify (?).
Only an occurrence or two in earlier language.
- mlech**, speak barbarously.
- ras**, roar.
- lakṣ**, mark.
Really denom. of **lakṣa**, which
(with other deriv.) V. +
- lag**, attach.
Only **lagna** (?) and **liṅga** (?) in earlier language.
- lajj**, be ashamed.
Only once in older language.
- lamb**, hang down.
Another form of **ramb**.
- lih**, lick.
Compare the other root-form, **rih**.
- lū**, cut.
- lok**, look.
Only once (and one deriv.) in older language.
- valh**, challenge.
Only pple in later language.
- ṣaṅk**, doubt.
- glāgh**, extol.
Only once in older lang., exc. a deriv. or two.
- skhal**, stumble.
Only once, and one deriv., in older language.
- styā**, **stī**, stiffen.
Only B. and C.; deriv. (?), V. +
- snu**, distil.
One deriv. (?) in RV.
- sphal**, strike.
Hardly occurs in older language.
- sphā**, fatten.
Deriv., V. +
- sphuṭ**, burst open.
Deriv., only in later language.
- has**, laugh.
Deriv., V. +
- hrād**, make a noise.
- hlād**, refresh.
Only once in older language; deriv., V. +
- hval**, go wrong.
Another form of **hvy**.

F. Roots found only in *Brāhmaṇa* and *Sūtra*.

- tañic**, **tac**, coagulate.
Same with **tak**? One (doubtful) deriv. in AV.
- path**, go (?).
No real root; denom. or error.
- pūy**, stink.
Deriv., AV. +
- mrit**, **mlit**, dissolve.
Sporadic.
- reḍ**, deceive (?).
Only in a single phrase.
- liq**, tear.
Another form of **riq**; deriv., V. +
- 2 **lī**, be unsteady.
Only in intensive forms.
- sūrkaṣ**, heed.

G. *Roots found only in the Brāhmaṇa.*

krath , be jubilant. Only once; doubtful deriv., E. +	ned , flow.
krūḍ , thicken (?). Only in a single passage.	pāy , <i>cacare</i> . One doubtful occurrence; one deriv., B. +
klath , turn (?). Only one occurrence.	pis , stretch (?). In a single passage.
kṣvid , hum. Perhaps imitative. Compare	plī . A single doubtful occurrence.
kṣviḍ .	1 bal , whirl (?). A single intensive form.
khaḍ , be hard. Only once; doubtful deriv., V. +	maṇṭ . A single questionable occurrence.
gard , exult (?). Probably same as gūrd .	mṛch , perish. In only a single passage.
gūrd , exult (?). In only one passage; one deriv., B. +	qlā , dissolve (?). One occurrence; prob. another form of qrā .
taṭ , clatter. Only once; apparently imitative.	subh , sumbh , smother (?). One doubtful deriv., V.
tāy , stretch. A questionable side-form to tan .	sul . A single very doubtful occurrence.
til . A single very doubtful occurrence.	stigh , mount. Found in one text only.
thūrv . A single very doubtful occurrence.	hūrch , fall away. Probably related with hvr̥ .
dram , run. Only a case or two; apparently side-form to drā .	

H. *Roots found from the Sūtra onward.*

uñch , glean.	mnā , note. Secondary, from man .
kuc , kuñc , shrink, curl. Only once in S.	rah , desert. Deriv., V. +
klid , be wet. Deriv., also AV.	lañgh , leap. Only pple (and one deriv.) in S.
gad , say. Deriv., B. +	luḍ , stir up. Only verbals in S.
gunṭh , cover up. Only gerund in S.	3 cam , note. Doubtless a specialization of 2
ghṛs , rub. Only gerund in S.; doubtful deriv., V. +	cam .
carv , chew. Only pple (cūrṇa) before C.	cran , give. Only with prefix vi .
cyut , drip. A blundering variant of çcut .	grambh , trust. One deriv., RV.
pūj , reverence. One deriv., also RV.	hras , shorten. Deriv., B. +

I. Roots found only in the Sūtra.**kharj**, creak.

Deriv., V. +

gulph, bunch.

Doubtful; one deriv., AV. +

str̥h, crush.Only one occurrence; seems a variant of **tr̥h**.**J. Roots found only in the later Language (Epic and Classical).****at̥**, wander.Later form of **at**.**ujh**, forsake.Secondary, from **hā + ud**; deriv., B. +**katth**, boast.

Seems a prakritized root-form.

kuṭṭ, divide, crush.Probably prakritized form of 1 **kṛt**.**kūrd**, leap, exult.Doubtless the same with **gūrd**; one deriv., S.**klam**, be weary.Compare **gram**.**kṣvid̥**, hum.Later form of **kṣvid**.**kṣvel**, play.**khac**, show through.**khel**, stagger.

One deriv., V. +

garj, roar.**ghaṭ**, strive.

Apparent deriv., V. +

ghaṭṭ, rub, etc.

A prakritized root-form.

ghuṭ, turn (?).

Only verbals, and one deriv., S.

ghūr̥ṇ, waver.

One apparent deriv., S. +

cakās, **cakāg**, shine.Perhaps from **kāg**.**carc**, repeat.

One apparent deriv., S.

cup, stir.

One doubtful deriv., V. B.

cumb, kiss.**cur**, steal.

One deriv., B. (TA.) +

chur, scatter.

Only pple in E.

ḍī, fly.Later form of **ḍī**.**ḍhāuk**, approach.

Only pple in E.

tark, think.

Deriv., B. +

tarj, threaten.**tim**, be quiet.Apparently related with **tam**.**tul**, lift, weigh.

Deriv., B. +

trap, be abashed.

Doubtful deriv., V. +

dal, burst.Secondary, from 1 **ḍr**; deriv., B. +**dhukṣ**, kindle.Only with prefix **sam**.**puṭh**, crush.3 **pr**, be busy.Only with prefix **ā**; doubtless specialized form of 1 or 2 **pr**.**pluṣ**, burn.

One doubtful deriv., V. B.

1 **phal**, burst.

Deriv., V. +

2 **phal**, fruit.

One apparent deriv., V. +

bhaṣ, bark.

One deriv., B.

maṇḍ, deck.

One deriv., B.

mārg, chase.Really denom. of **mārga**, 'track.'**rac**, produce.**raṭ**, howl.1 **rās**, roar.

One doubtful deriv., B. +

rūṣ, strew.

One very doubtful deriv., V. +

lal, sport.**laṣ**, desire.Almost only with prefix **abhi**.**las**, be lively.

One doubtful deriv., B. +

luñc, tear out.

One deriv., B.

2 **luṭh**, **luṇṭh**, rob.**lul**, be lively.The same with **luḍ**.

loc, see, consider.

The same with **lok**.

vīj, **vyaj**, fan.

Perhaps from **aj** + **vi**.

vr̥h, **br̥h**, roar.

vr̥ḍ, be ashamed.

vell, stagger.

Only pple in E.

stim, be stiff.

Only pple; compare **styā**.

hres, neigh.

K. Roots found only in the Epics.

kṣup, be startled (?).

No real root.

glah, gamble.

Doubtless from **grah**; deriv.,

AV. +

jam.

Only once; artificial.

ruth, torment.

Only once; probably the same with **luṭh**.

L. Roots found only in the Classical Language.

aṅ, move.

Only once; doubtless artificial.

anṭh, visit.

Probably artificial.

āñch, pull, tear.

Probably artificial.

kās, cough.

Doubtless denom.; apparent deriv., AV. C.

kuñj, rustle.

Only once; probably bad reading or artificial.

kunṭh, dull.

Doubtless denominative.

kuth, stink.

One apparent deriv., B.

kūp, shrink.

kland, cry out.

Side-form to **krand**; one deriv., AV.

klav, stammer.

Probably artificial.

kvaṇ, sound.

kṣmā, tremble.

Only once; probably artificial.

khañj, limp.

khall, be relaxed.

galbh, dare.

With prefix **pra**; doubtless denom. of **pragalbha** (B. +).

guñj, hum.

gumph, twine.

cak, quake.

cañc, dance.

caṭ, be located (?).

culump, suck in.

Once; artificial.

cūṣ, draw, suck.

Deriv., also in E.

chuṭ, **chuḍ**, wrench.

jagh, devour (?).

Only once.

jhaṭ, confuse.

Only once; probably artificial.

jhaṇ, sound.

Only once; probably artificial.

jhar, fall.

Deriv., also in E.

ṭaṅk, cover (?).

Probably denom. of **ṭaṅka** (E. +).

ṭal, be confused.

Only once; probably artificial.

ṭik, trip.

An occurrence or two, probably artificial.

ḍam, sound.

Only once; probably artificial.

ḍamb, mock.

Only with prefix **vi**.

ḍval, mix.

Probably artificial.

ti, crush.

Only once; probably a false reading.

truṭ, come to pieces.

Probably denom. from **truṭi** (E. +).

tvaṅg, leap.

dul, raise.

Probably denom. of **dola** (E. +).

ḍyu, attack.

Once; doubtless artificial.

drāḍ, split.

Once; doubtless artificial.

naṭ , dance, play. Prakritized form of nṛt ; one deriv., also E.	1 luṭh , roll. vaṭ , crush. Only once; probably artificial.
pard , <i>pedere</i> . Though genuine and original, only quotable once.	vant , divide. Only once; probably artificial.
puṭ , wrap, etc. Probably denom. of puṭa (B. +).	val , turn. Deriv., also E.
phakk , swell (?). Only once; doubtless artificial.	vāh , press. No derivatives.
bul , immerse. Only once; doubtless artificial.	vyay , expend. Probably denom. of vyaya .
bhaṭ , hire. Denom. of the prakritized bhaṭa (E. +).	vran , sound. Only once; doubtless artificial.
mañc , cleanse (?). Denom. of mañca (E. +), or artificial.	vrud , sink. An occurrence or two doubtless artificial.
man , sound. Ungenuine.	ḡal , leap. Only with prefix ud ; goes back to ḡl , ḡr .
muṭ , break.	ḡaḡ , leap. Doubtless denom. from ḡaḡa (V. +).
rañg , rock. Only once; doubtless artificial.	ḡlath , slacken. Later form of ḡrath .
2 ran , ring. 2 rambh , roar. An occurrence or two; probably artificial.	sthaḡ , cover.
riñkh , riñg , creep.	sphaṭ , split. One doubtful deriv., B. +
laḡ , move about. Only once; probably artificial.	had , <i>cacare</i> . One deriv., also E.
lam , take pleasure. A sporadic variant to ram .	hikk , sob. Probably imitative; one deriv., also E.
lā , grasp. The few cases probably artificial.	hiñḍ , be empty. Deriv., E. +
lāñch , mark. Only pple and one derivative.	

M. Roots inferred from Derivatives only.

añh , be narrow or distressing. Deriv., V. +	dvar , pass through. Deriv., V. +
iḍ . Deriv., V. +	nīḍ , nest. Deriv., V. +
2 rj , shine. Deriv., V. +	nṛ , sport. Deriv., V. +
rḡ , harm. Deriv., V. +; one doubtful verbal form in B.	2 paḡ , bind. Deriv., V. +
kru , be rough or raw. Deriv., V. +	pṛt , fight. Deriv., V. +
tuc , impel, generate. Deriv., V. +	pṛḡ , pṛḡ , touch (?). Deriv., V. +
tvac , cover. Deriv., V. +	2 bal , be strong. Deriv., V. +
2 dū , be distant. Deriv., V. +	yah , be quick (?). Deriv., V.

rañch, mark.

Deriv., C.

raph, be miserable (?).

Deriv., V.

raç, be straight (?).

Deriv., V. +

çip, be smooth.

Deriv., V. +

2 **si**, **sī**, hurl (?).

Deriv., V. +

sṛk, be pointed.

Deriv., V. +

stā, be stealthy.

Deriv., V. +

2 **stu**, drip.

Deriv., V. +

2 **har**, **hir**, be yellow.

Deriv., V. +

NOTE.

The following Index, like the classes of roots preceding, is arranged in the order of the Sanskrit alphabet: the vowels first, **a ā i ī u ū ṛ e ai o au**; then the anusvāra, or **ṁ**; then the five classes of mutes, or **k kh g gh ṅ**, **c ch j jh ṣ**, **ṭ ṭh ḍ ḍh ṇ**, **t th d dh n**, **p ph b bh m**; then the semi-vowels, sibilants, and aspirate, or **y r l v, ç š s**, and **h**. It is to be noted that the roots here written with the vowel **ṛ** are often (e.g. by the Petersburg Lexicon) written instead with **ar**, thus: **ar**, **kar**, **kart**, instead of **ṛ**, **kṛ**, **kṛt**; in a few cases, with **ra**, as **krap** instead of **kṛp**.

To each root is here added the letter designating the class as given above, also the page, and the column (a or b) where it may be found. It should be remembered that classes **A**, **B**, **C**, and **D** contain the roots which have the best chance to be Indo-European; the roots of the succeeding classes (except **M**) have that chance in a constantly decreasing proportion.

INDEX.

añç	A. 9 a	īç	A. 9 b	kuṭṭ	J. 21 a	1 kṣi	C. 16 a
añh	M. 23 a	īṣ	C. 16 a	kuṇṭh	L. 22 a	2 kṣi	A. 10 a
1 akṣ	A. 9 a	īh	E. 18 a	kuth	L. 22 a	kṣip	A. 10 a
2 akṣ	B. 15 a	1 u	D. 17 a	kup	A. 10 a	kṣu	E. 18 b
aṅg	L. 22 a	2 u	A. 14 a	kuṣ	E. 18 a	kṣud	A. 10 a
ac	A. 9 a	1 ukṣ	A. 9 b	kū	A. 10 a	kṣudh	A. 10 a
aj	A. 9 a	2 ukṣ	D. 18 b	kūj	A. 10 a	kṣup	K. 22 a
añc	A. 9 a	uc	A. 9 b	kūḍ	A. 10 a	kṣubh	A. 10 a
añj	A. 9 a	ujh	J. 21 a	kūṇ	L. 22 a	kṣṇu	B. 15 a
aṭ	J. 21 a	uñch	H. 20 a	kūrd	J. 21 a	kṣmā	L. 22 a
aṇṭh	L. 22 a	ud	A. 9 b	kūl	A. 10 a	kṣviḍ	J. 21 a
at	A. 9 a	und	A. 9 b	1 kṛ	A. 10 a	kṣvid	G. 20 a
ad	A. 9 a	ubj	B. 15 a	2 kṛ	A. 10 a	kṣvel	J. 21 a
an	A. 9 a	ubh	A. 9 b	3 kṛ	D. 17 a	khac	J. 21 a
am	C. 16 a	uṣ	A. 9 b	1 kṛt	A. 10 a	khañj	L. 22 a
arc	A. 9 a	1 ūh	A. 9 b	2 kṛt	A. 10 a	khaḍ	G. 20 a
arj	A. 9 b	2 ūh	A. 9 b	kṛp	C. 16 a	khan	A. 10 a
art	C. 16 a	ṛ	A. 9 b	kṛç	A. 10 a	kharj	I. 21 a
ard	A. 9 b	ṛc	A. 9 a	kṛṣ	A. 10 a	khall	L. 22 a
arh	A. 9 a	ṛch	A. 9 b	kṛp	A. 10 a	khā	A. 10 a
av	A. 9 a	1 ṛj	A. 9 b	knū	E. 18 a	khād	A. 10 a
1 aç	A. 9 a	2 ṛj	M. 23 a	krakṣ	D. 17 a	khid	A. 10 a
2 aç	A. 9 a	ṛñj	A. 9 b	krath	G. 20 a	khud	B. 15 a
1 as	A. 9 a	ṛt	C. 16 a	krand	A. 10 a	khel	J. 21 a
2 as	A. 9 a	ṛd	A. 9 b	kram	A. 10 a	khyā	A. 10 a
ah	A. 9 a	ṛdh	A. 9 b	krī	A. 10 a	gach	A. 10 a
añch	L. 22 a	ṛç	M. 23 a	krīḍ	A. 10 a	gad	H. 20 a
āp	A. 9 a	ṛṣ	B. 15 a	kru	M. 23 a	gadh	D. 17 a
ār	D. 17 a	ej	A. 9 b	krudh	A. 10 a	gam	A. 10 a
ās	A. 9 a	edh	A. 9 b	kruç	A. 10 a	garj	J. 21 a
1 i	A. 9 a	eṣ	C. 16 a	krūḍ	G. 20 a	gard	G. 20 a
2 i	C. 16 a	katth	J. 21 a	klath	G. 20 a	garh	A. 10 a
iṅg	A. 9 a	kan	B. 15 a	kland	L. 22 a	gal	E. 18 b
iḍ	M. 23 a	kam	A. 9 b	klav	J. 21 a	galbh	L. 22 a
idh	A. 9 a	kamp	E. 18 a	klav	L. 22 a	1 gā	A. 10 b
in, inv	C. 16 a	kal	E. 18 a	klid	H. 20 a	2 gā	A. 10 b
indh	A. 9 a	kaṣ	A. 9 b	kliç	E. 18 a	gāh	A. 10 b
il	A. 9 a	kas	A. 10 a	kvaṇ	L. 22 a	gir	A. 10 b
1 iṣ	A. 9 b	kā	B. 15 a	kvath	E. 18 a	gil	A. 10 b
2 iṣ	A. 9 b	kāñkṣ	E. 18 a	kṣad	C. 16 a	gu	C. 16 a
īkṣ	A. 9 b	kāç	A. 10 a	kṣan	A. 10 a	guñj	L. 22 a
īñkh	A. 9 b	kās	L. 22 a	kṣap	A. 10 a	guṇṭh	H. 20 a
īj	A. 9 b	kir	A. 10 a	kṣam	A. 10 a	gup	A. 10 b
iḍ	A. 9 b	kuc	H. 20 a	kṣar	A. 10 a	gumph	L. 22 a
ir	A. 9 b	kuffc	H. 20 a	kṣal	E. 18 b	gur	A. 10 b
īṣy	E. 18 a	kufj	L. 22 a	kṣā	15 a	gulph	I. 21 a

guh	A. 10 b	ceṣṭ	A. 10 b	dam	L. 22 b	tsar	B. 15 a
gūrd	G. 20 a	cyu	A. 10 b	ḍamb	L. 22 b	thūrv	G. 20 a
gūrdh	D. 17 a	cyut	H. 20 a	ḍī	J. 21 a	dañç	A. 11 a
1 gr	A. 10 b	1 chad	A. 10 b	ḍval	L. 22 b	dañs	D. 17 b
2 gr	A. 10 b	2 chad	A. 10 b	ḍhāuk	J. 21 a	ḍakṣ	C. 16 a
3 gr	A. 10 b	chand	A. 10 b	tañs	C. 16 a	ḍagh	C. 16 a
grdh	A. 10 b	chā	A. 10 b	tak	D. 17 a	ḍad	A. 11 b
grath	A. 10 b	chid	A. 10 b	takṣ	A. 11 a	ḍadh	A. 11 b
granth	A. 10 b	chuṭ	L. 22 b	tac	F. 19 a	dan	D. 17 b
grabh	B. 15 a	chuḍ	L. 22 b	tañc	F. 19 a	ḍabh	C. 16 a
gras	A. 10 b	chur	J. 21 a	taṭ	G. 20 a	ḍam	A. 11 a
grah	A. 10 b	chrd	E. 18 b	taḍ	A. 11 a	ḍambh	C. 16 a
glah	K. 22 a	1 jakṣ	A. 11 a	1 tan	A. 11 a	ḍay	A. 11 a
glā	A. 10 b	2 jakṣ	C. 16 a	2 tan	D. 17 a	ḍal	J. 21 b
ghaṭ	J. 21 a	jagh	L. 22 b	tand	D. 17 a	ḍaḡ	A. 11 a
ghaṭṭ	J. 21 a	jajh	D. 17 a	tap	A. 11 a	ḍas	A. 11 b
ghar	A. 10 b	jañj	D. 17 a	tam	A. 11 a	ḍah	A. 11 b
ghas	A. 10 b	jan	A. 11 a	tark	J. 21 b	1 dā	A. 11 b
ghuṭ	J. 21 a	jap	E. 18 b	tarj	J. 21 b	2 dā	A. 11 b
ghūrṇ	J. 21 a	jabh	A. 11 a	tas	C. 16 a	3 dā	A. 11 b
ghuṣ	A. 10 b	jam	K. 22 b	tāy	G. 20 a	4 dā	E. 19 a
ghṛ	A. 10 b	jambh	A. 11 a	tāv	D. 17 a	ḍāḡ	C. 16 a
ghṛṣ	H. 20 a	jalp	E. 18 b	ti	L. 22 b	ḍās	A. 11 b
ghrā	A. 10 b	jas	A. 11 a	tij	A. 11 a	ḍiḡ	A. 11 b
cak	L. 22 a	jā	A. 11 a	tim	J. 21 b	ḍih	A. 11 b
cakāḡ	J. 21 a	jāḡ	A. 10 b	til	G. 20 a	1 dī	C. 16 a
cakās	J. 21 a	1 ji	A. 11 a	tu	D. 17 b	2 dī	B. 15 a
caḡṣ	A. 10 b	2 ji	B. 15 a	tuc	M. 23 a	ḍikṣ	A. 11 b
cañc	L. 22 a	jinṽ	B. 15 a	tuj	D. 17 b	ḍidi	B. 15 a
caṭ	L. 22 a	jī	B. 15 a	tud	A. 11 a	ḍidhī	A. 11 b
cat	C. 16 a	jīv	A. 11 a	turv	C. 16 a	ḍīp	A. 11 b
can	D. 17 a	juṣ	A. 11 a	tul	J. 21 b	1 dīv	A. 11 b
cand	D. 18 b	jū	A. 11 a	tuḡ	D. 17 b	2 dīv	E. 19 a
cam	E. 18 b	jūrv	D. 17 a	tuṣ	A. 11 a	ḍu	A. 11 b
car	A. 10 b	1 jṛ	A. 11 a	tūrṽ	C. 16 a	ḍudh	D. 17 b
carc	J. 21 a	2 jṛ	D. 17 a	tṛ	A. 11 a	ḍul	L. 22 b
carv	H. 20 a	jṛmbh	A. 11 a	tṛd	A. 11 a	ḍuṣ	A. 11 b
cal	A. 10 b	jeh	D. 17 a	tṛp	A. 11 a	ḍuh	A. 11 b
cāy	C. 16 a	jñā	A. 11 a	tṛṣ	A. 11 a	1 dū	A. 11 b
1 ci	A. 10 b	jyā	B. 15 a	tṛh	C. 16 a	2 dū	M. 23 a
2 ci	A. 10 b	jyut	E. 18 b	tyaj	A. 11 a	1 dṛ	A. 11 b
cit	A. 10 b	jri	D. 17 a	trap	J. 21 b	2 dṛ	E. 19 a
cint	E. 18 b	jvar	E. 18 b	tras	A. 11 a	ḍrñh	A. 11 b
cud	A. 10 b	jval	E. 18 b	trā	A. 11 a	ḍṛp	A. 11 b
cup	J. 21 a	jhaṭ	L. 22 b	truṭ	L. 22 b	ḍṛbh	E. 19 a
cumb	J. 21 a	jhaṇ	L. 22 b	tvakṣ	D. 17 b	ḍṛḡ	A. 11 b
cur	J. 21 a	jhar	L. 22 b	tvañḡ	L. 22 b	ḍṛh	A. 11 b
culump	L. 22 a	ṭaṅk	L. 22 b	tvac	M. 23 a	ḍev	E. 19 a
cūṣ	L. 22 b	ṭal	L. 22 b	tvar	A. 11 a	ḍyu	L. 22 b
cṛt	B. 15 a	ṭik	L. 22 b	tviṣ	A. 11 a	ḍyut	A. 11 b

dram	G. 20 a	niñs	D. 17 b	prç	M. 23 b	bhid	A. 12 b
1 drā	A. 11 b	nikṣ	D. 17 b	prṣ	M. 23 b	bhiṣaj	D. 18 a
2 drā	A. 11 b	nij	A. 12 a	pyā	A. 12 a	bhī	A. 12 b
drāḍ	L. 22 b	nid	A. 12 a	prach	A. 12 b	bhīṣ	A. 12 b
drū	A. 11 b	nind	A. 12 a	prath	A. 12 b	1 bhuj	A. 12 b
druḥ	A. 11 b	nī	A. 12 a	praç	A. 12 b	2 bhuj	A. 12 b
drū	C. 16 a	niḍ	M. 23 b	prā	C. 16 b	bhur	D. 18 a
dvar	M. 23 b	1 nu	A. 12 a	prī	A. 12 b	bhuraç	D. 18 a
dviṣ	A. 11 b	2 nu	B. 15 b	pru	B. 15 b	bhū	A. 12 b
dhan	D. 17 b	nud	A. 12 a	pruth	B. 15 b	bhūṣ	A. 12 b
dhanv	C. 16 a	nū	A. 12 a	pruṣ	C. 16 b	bhr	A. 12 b
dham	A. 11 b	nṛ	M. 23 b	plī	G. 20 b	bhrjj	A. 12 b
dhav	D. 17 b	nṛt	A. 12 a	plu	A. 12 b	bhyas	D. 18 a
1 dhā	A. 11 b	ned	G. 20 b	pluṣ	J. 21 b	bhraṇç	A. 12 b
2 dhā	A. 11 b	pac	A. 12 a	psā	C. 16 b	bhram	E. 19 a
1 dhāv	A. 11 b	paj	D. 17 b	phakk	L. 23 a	bhraç	A. 12 b
2 dhāv	A. 11 b	paṭ	E. 19 a	phaṇ	A. 12 b	bhrāj	A. 12 b
dhi	E. 19 a	paṭh	E. 19 a	phar	D. 17 b	bhrī	D. 18 a
dhinv	E. 19 a	paṇ	E. 19 a	1 phal	J. 21 b	bhres	C. 16 b
dhī	A. 11 b	1 pat	A. 12 a	2 phal	J. 21 b	mañh	A. 12 b
dhu	A. 12 a	2 pat	C. 16 b	bañh	A. 12 b	majj	A. 12 b
dhukṣ	J. 21 b	path	F. 19 a	badh	A. 13 b	mañc	L. 23 a
dhur	A. 12 a	pad	A. 12 a	bandh	A. 12 b	maṇ	L. 23 a
dhū	A. 12 a	pan	C. 16 b	1 bal	G. 20 b	mañṭ	G. 20 b
dhūrv	C. 16 b	pard	L. 23 a	2 bal	M. 23 b	mañḍ	J. 21 b
dhṛ	A. 12 a	1 paç	A. 12 a	bādḥ	A. 12 b	math	A. 12 b
dhṛṣ	A. 12 a	2 paç	M. 23 b	budh	A. 12 b	mad	A. 12 b
dhmā	A. 11 b	1 pā	A. 12 a	bul	L. 23 a	man	A. 12 b
dhyā	E. 19 a	2 pā	A. 12 a	bṛñh	J. 22 a	manth	A. 12 b
dhraj	C. 16 b	pāy	G. 20 b	1 bṛh	A. 12 b	mand	A. 12 b
dhraj	C. 16 b	pi	A. 12 a	2 bṛh	A. 14 a	mah	A. 12 b
dhru	A. 12 a	pinv	B. 15 b	brū	A. 12 b	1 mā	A. 12 b
dhvañs	A. 12 a	pibḍ	C. 16 b	blī	B. 16 a	2 mā	A. 12 b
dhvan	A. 12 a	piç	A. 12 a	bhaks	A. 12 b	3 mā	C. 16 b
dhvas	A. 12 a	piṣ	A. 12 a	bhaj	A. 12 b	mārg	J. 21 b
dhvṛ	A. 12 a	pis	G. 20 b	bhañj	A. 12 b	1 mi	A. 13 a
nañç	C. 16 b	pī	A. 12 a	bhaṭ	L. 23 a	2 mi	A. 13 a
nakṣ	C. 16 b	piḍ	A. 12 a	bhaṇ	E. 19 a	mikṣ	B. 15 b
naṭ	L. 23 a	piṇ	C. 16 b	bhan	D. 17 b	mith	A. 13 a
nad	A. 12 a	puṭ	L. 23 a	bhand	D. 17 b	mil	E. 19 a
nand	A. 12 a	puth	J. 21 b	bharts	A. 12 b	miç	B. 15 b
nabh	B. 15 a	puṣ	A. 12 a	bharv	D. 17 b	miṣ	A. 13 a
nam	A. 12 a	pū	A. 12 a	bhal	E. 19 a	mih	A. 13 a
nard	E. 19 a	pūj	H. 20 a	bhaṣ	J. 21 b	mī	A. 13 a
1 naç	A. 12 a	pūy	F. 19 a	bhas	A. 12 b	mīl	A. 13 a
2 naç	C. 16 b	1 pṛ	A. 12 a	bhā	A. 12 b	mīv	B. 15 b
nas	D. 17 b	2 pṛ	A. 12 a	bhām	C. 16 b	muc	A. 13 a
nah	A. 12 a	3 pṛ	J. 21 b	bhāṣ	E. 19 a	muṭ	L. 23 a
nāth	A. 12 a	prç	A. 12 a	bhās	A. 12 b	mud	A. 13 a
nādh	C. 16 b	prṭ	M. 23 b	bhikṣ	A. 12 b	muṣ	A. 13 a

muḥ	A. 13 a	rañich	M. 24 a	rej	C. 17 a	valh	E. 19 b
mū	B. 15 b	rañj	A. 13 a	reḍ	F. 19 b	vaç	A. 13 b
mürch	A. 13 a	raṭ	J. 21 b	lakṣ	E. 19 a	1 vas	A. 13 b
1 mṛ	A. 13 a	raṇv	C. 16 b	lag	E. 19 b	2 vas	A. 13 b
2 mṛ	C. 16 b	rad	C. 16 b	lañgh	H. 20 b	3 vas	A. 13 b
mṛkṣ	A. 13 a	radh	A. 13 a	lajj	E. 19 b	vah	A. 13 b
mṛc	B. 15 b	1 ran	C. 16 b	laḍ	L. 23 a	1 vā	A. 13 b
mṛch	G. 20 b	2 ran	L. 23 a	lap	A. 13 b	2 vā	A. 14 a
mṛj	A. 13 a	randh	A. 13 a	labh	A. 13 b	3 vā	A. 13 b
mṛḍ	A. 13 a	rap	C. 16 b	lam	L. 23 a	vāñich	A. 14 a
mṛṇ	C. 16 b	rapç	D. 18 a	lamb	E. 19 b	vāç	A. 14 a
mṛḍ	A. 13 a	raph	M. 24 a	lal	J. 21 b	vāh	L. 23 b
mṛḍh	B. 15 b	rabh	A. 13 a	laṣ	J. 21 b	vi	A. 14 a
mṛç	A. 13 a	ram	A. 13 a	las	J. 21 b	1 vic	A. 14 a
mṛṣ	A. 13 a	ramb	D. 18 a	lā	L. 23 a	2 vic	C. 17 a
med	A. 13 a	1 rambh	A. 13 a	lāñich	L. 23 a	vij	A. 14 a
mokṣ	A. 13 a	2 rambh	L. 23 a	likh	A. 13 b	1 vid	A. 14 a
mnā	H. 20 b	raç	M. 24 a	lip	A. 13 b	2 vid	A. 14 a
myakṣ	D. 18 a	ras	E. 19 a	limp	A. 13 b	1 vidh	A. 14 a
mrit	F. 19 a	rah	H. 20 b	liç	F. 19 b	2 vidh	A. 14 a
mruc	A. 13 a	1 rā	A. 13 b	lih	E. 19 b	vindh	D. 18 b
mrreḍ	E. 19 a	2 rā	C. 16 b	1 lī	A. 13 b	vip	A. 14 a
mlā	A. 13 a	rāj	A. 13 b	2 lī	F. 19 b	viç	A. 14 a
mlit	F. 19 a	rādh	A. 13 b	luñc	J. 21 b	viṣ	A. 14 a
mluc	A. 13 a	1 rās	J. 21 b	1 luṭh	L. 23 b	viṣṭ	A. 14 a
mlup	A. 13 a	2 rās	A. 13 b	2 luṭh	J. 21 b	1 vī	C. 17 a
mllech	E. 19 a	ri	B. 15 b	luḍ	H. 20 b	2 vī	A. 14 a
yakṣ	A. 13 a	rikh	D. 18 a	luṇṭh	J. 21 b	vīj	J. 22 a
yach	A. 13 a	riñkh	L. 23 a	lup	A. 13 b	vīḍ	B. 16 a
yaj	A. 13 a	riñg	L. 23 a	lubh	A. 13 b	1 vṛ	A. 14 a
yat	A. 13 a	ric	A. 13 b	lul	J. 21 b	2 vṛ	A. 14 a
yabh	A. 13 a	rip	D. 18 a	lū	E. 19 b	vṛñh	J. 22 a
yam	A. 13 a	riph	A. 13 b	lok	E. 19 b	vṛj	A. 14 a
yas	A. 13 a	ribh	A. 13 b	loc	J. 22 a	vṛt	A. 14 a
yah	M. 23 b	riç	C. 17 a	vakṣ	D. 18 b	vṛdh	A. 14 a
yā	A. 13 a	riṣ	A. 13 b	vac	A. 13 b	vṛṣ	A. 14 a
yāc	A. 13 a	rih	B. 15 b	vaj	B. 15 b	vṛh	A. 14 a
yād	D. 18 a	rī	B. 15 b	vañc	A. 13 b	ven	C. 17 a
1 yu	A. 13 a	1 ru	A. 13 b	vaṭ	L. 23 b	vep	A. 14 a
2 yu	B. 15 b	2 ru	C. 17 a	vaṇṭ	L. 23 b	vell	J. 22 b
yuch	B. 15 b	ruc	A. 13 b	vat	D. 18 b	veṣṭ	A. 14 a
yuj	A. 13 a	ruj	A. 13 b	vad	A. 13 b	vyac	C. 17 a
yudh	A. 13 a	ruṭh	K. 22 b	vadh	A. 13 b	vyaj	J. 22 a
yup	B. 15 b	rud	A. 13 b	van	A. 13 b	vyath	A. 14 a
yeṣ	A. 13 a	1 rudh	D. 18 a	vand	A. 13 b	vyadh	A. 14 a
rañh	B. 15 b	2 rudh	A. 13 b	1 vap	A. 13 b	vyay	L. 23 b
rakṣ	A. 13 a	rup	C. 17 a	2 vap	B. 16 a	vyā	A. 14 a
rañg	L. 23 a	ruṣ	A. 13 b	vam	A. 13 b	vraj	A. 14 a
rac	J. 21 b	ruh	A. 13 b	val	L. 23 b	vrad	D. 18 b
raj	A. 13 a	rūṣ	J. 21 b	valg	A. 13 b	vran	L. 23 b

vrand	D. 18 b	gnath	D. 18 b	sū	A. 14 b	smṛ	A. 15 a
vraçc	A. 14 a	çyā	A. 14 b	sūd	A. 14 b	syad	A. 15 a
vrādh	D. 18 b	çrath	A. 14 b	sūrkaṣ	F. 19 b	syand	A. 15 a
vrīḍ	J. 22 a	çran	H. 20 b	sṛ	A. 14 b	syū	A. 14 b
vrūḍ	L. 23 b	çram	A. 14 b	sṛk	M. 24 b	srañs	A. 15 a
vlag	D. 18 b	çrambh	H. 20 b	sṛj	A. 14 b	sras	A. 15 a
vlañg	D. 18 b	çrā	A. 14 b	sṛp	A. 14 b	sridh	D. 18 b
vli	B. 16 a	çri	A. 14 b	sev	A. 14 b	sṛiv	C. 17 b
çañs	A. 14 a	çriṣ	A. 14 b	skand	A. 14 b	sru	A. 15 a
çak	A. 14 a	1 çrī	C. 17 a	skabh	A. 14 b	svaj	A. 15 a
çañk	E. 19 b	2 çrī	A. 14 b	skambh	A. 14 b	svañj	A. 15 a
çat	A. 14 a	çru	A. 14 b	sku	C. 17 b	svad	A. 15 a
1 çad	D. 18 b	çruṣ	D. 18 b	skr	A. 10 a	svan	A. 15 a
2 çad	B. 16 a	çlath	L. 23 b	skhal	E. 19 b	svap	A. 15 a
çap	A. 14 a	çlā	G. 20 b	stan	A. 14 b	svar	A. 15 b
1 çam	B. 16 b	çlāgh	E. 19 b	stabh	A. 14 b	svād	A. 15 a
2 çam	A. 14 a	çliṣ	A. 14 b	stambh	A. 14 b	svid	A. 15 b
3 çam	H. 20 b	çvañc	C. 17 b	stā	M. 24 b	had	L. 23 b
çal	L. 23 b	çvas	A. 14 b	stigh	G. 20 b	han	A. 15 b
çaç	L. 23 b	çvā	A. 14 a	stim	J. 22 b	1 har	C. 17 b
ças	A. 14 a	çvi	A. 14 a	stī	E. 19 b	2 har	M. 24 b
çā	A. 14 a	çvit	D. 18 b	1 stu	A. 14 b	has	E. 19 b
1 çās	A. 14 a	çthīv	A. 14 b	2 stu	M. 24 b	hā	A. 15 b
2 çās	A. 14 a	sagh	B. 16 b	stubh	A. 14 b	hās	D. 18 b
çi	A. 14 a	sac	C. 17 b	str	A. 14 b	hi	A. 15 b
çinḥ	A. 14 a	saj	A. 14 b	strh	I. 21 b	hiñs	A. 15 b
çip	M. 24 a	sañj	A. 14 b	styā	E. 19 b	hikk	L. 23 b
çim	B. 16 b	sad	A. 14 b	sthaḡ	L. 23 b	hiñḍ	L. 23 b
1 çis	A. 14 a	sadh	A. 14 b	sthā	A. 14 b	hir	M. 24 b
2 çis	A. 14 a	san	B. 16 b	snā	A. 15 a	hiḍ	A. 15 b
1 çī	B. 16 b	sap	C. 17 b	snih	A. 15 a	hu	A. 15 b
2 çī	A. 14 a	sarj	C. 17 b	snu	E. 19 b	hur	A. 15 b
3 çī	A. 14 b	sas	A. 14 b	spand	A. 15 a	hū	A. 15 b
çuc	A. 14 a	sah	A. 14 b	spaç	A. 12 a	hūrch	G. 20 b
çuj	D. 18 b	1 sā	A. 14 b	spūrdh	A. 15 a	1 hṛ	A. 15 b
çudh	A. 14 a	2 sā	B. 16 b	spṛ	B. 16 b	2 hṛ	C. 17 b
çundh	A. 14 a	sādh	A. 14 b	spṛdh	A. 15 a	hṛṣ	A. 15 b
çubh	A. 14 a	1 si	A. 14 b	spṛç	A. 15 a	hel	A. 15 b
çumbh	A. 14 a	2 si	M. 24 a	spṛh	A. 15 a	heṣ	A. 15 b
1 çuṣ	A. 14 a	sic	A. 14 b	sphaṭ	L. 23 b	hnu	A. 15 b
2 çuṣ	A. 14 b	1 sidh	A. 14 b	sphal	E. 19 b	hras	H. 20 b
çū	A. 14 a	2 sidh	A. 14 b	sphar	A. 15 a	hrād	E. 19 b
1 çṛ	A. 14 b	sī	M. 24 a	sphā	E. 19 b	hrī	A. 15 b
2 çṛ	A. 14 b	siv	A. 14 b	sphuṭ	E. 19 b	hru	A. 15 b
3 çṛ	A. 14 b	1 su	A. 14 b	sphur	A. 15 a	hres	J. 22 b
4 çṛ	C. 17 a	2 su	A. 14 b	sphul	A. 15 a	hlād	E. 19 b
çṛdh	A. 14 b	subh	G. 20 b	sphūrj	A. 15 a	hval	E. 19 b
çcand	D. 18 b	sumbh	G. 20 b	sphṛ	A. 15 a	hvā	A. 15 b
çcut	A. 14 b	sul	G. 20 b	smi	A. 15 a	hvṛ	A. 15 b